

AN 1992-337045 JAPIO
TI HYDROGEN STORAGE MATERIAL
IN KABUTOMORI TOSHIKI; TAKAHASHI TOSHIO
PA JAPAN STEEL WORKS LTD:THE
PI JP 04337045 A 19921125 Heisei
AI JP 1991-138545 (JP03138545 Heisei) 19910515
PRAI JP 1991-138545 19910515
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1992
AN 1992-337045 JAPIO
AB PURPOSE: To obtain a hydrogen storage material capable of effectively absorbing and releasing hydrogen at ordinary temp. and showing superior amount of hydrogen occlusion.
CONSTITUTION: The material has a composition represented by a general formula $Ti_{x/100}Cr_{2-y-z/100}V_{y/100}Fe_{x/100}$, where the symbols (x), (y), and (z) stand for 0.5-1.2, >0-1.5, and >0-0.5, respectively, and (y+z) is >0 to <2.0. Because a plateau equilibrium pressure becomes ordinary pressure at ordinary temp. and further the amount of hydrogen occlusion is increased and also plateau characteristics are improved, this material can efficiently absorb and release hydrogen at ordinary temp. and can be effectively used for the storage, transportation, etc., of hydrogen.
COPYRIGHT: (C)1992,JPO&Japio